

AMENDMENTS TO THE CLAIMS

Please amend claims 50 and 52-54, and add new claims 55-57 as indicated below. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-49 (Canceled)

Claim 50 (Currently Amended): A system for measuring physiological parameters in the body of a patient indicative of gastroesophageal reflux, the system comprising:

a plurality of sensors adapted to be implanted in the body of ~~the a~~ patient, wherein each of the plurality of sensors periodically ~~measure~~ measures a physiological parameter indicative of gastroesophageal reflux and wherein each of the plurality of sensors periodically ~~transmit~~ transmits a signal indicative of the physiological parameter that is indicative of gastroesophageal reflux and wherein each of the signals ~~signal~~ includes an identifier that is indicative of the sensor from which ~~each the~~ signal is sent; and

a receiver that receives the signals from the plurality of ~~transmitters~~ sensors and records the signals.

Claim 51 (Original): The system of Claim 50, wherein each of the plurality of sensors includes a pH monitor and an RF transmitter.

Claim 52 (Currently Amended): The system of Claim 51, wherein each of the plurality of ~~sensor~~ sensors also includes a microprocessor that periodically receives a signal from the pH monitor and induces the RF transmitter to periodically send an RF signal indicative of the pH measured by the pH monitor.

Claim 53 (Currently Amended): The system of Claim 52, wherein the microprocessor of each of the sensors periodically enables the pH monitor of the respective sensor during a first interval of each measurement cycle to obtain the pH signal and then disables the pH monitor during a second interval.

Claim 54 (Currently Amended): The system of Claim 53, wherein the microprocessor of each of the sensors enables the RF transmitter of the respective sensor during the second interval and disables the RF transmitter during periods of each cycle other than the second interval and disables the pH monitor of the respective sensor during periods of each cycle other than the first interval.

Claim 55 (New): The system of Claim 50, wherein the identifier for each of the signals comprises at least one of a frequency and a code.

Claim 56 (New): The system of Claim 50, wherein the receiver is configured to be worn by the patient.

Claim 57 (New): The system of Claim 50, wherein the receiver includes circuitry to sense a position of the patient, and the receiver periodically records the position of the patient.

AMENDMENTS TO THE DRAWINGS

The attached sheet of drawings includes changes to FIGS. 13 and 14. The sheet, which includes FIGS. 13 and 14, replaces the original sheet including FIGS. 13 and 14. The attached sheet of drawings adds reference numerals to FIGS. 13 and 14 that are mentioned in the specification, namely reference numerals 168, 172, 184, 188 and 190. The attached sheet of drawings makes the same changes to FIGS. 13 and 14 of the present application as made to FIGS. 13 and 14 during prosecution of the parent application, Application Serial No. 09/544,373.

Attachment: Replacement Sheet

Annotated Sheet Showing Changes